

71119 WSE Edmonton Stony Plain Observations at 12Z 20 Jan 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	177									
930.0	766	0.8	-3.7	72	3.14	310	14	279.7	288.7	280.2
925.0	810	0.6	-3.9	72	3.11	325	19	279.9	288.8	280.4
913.0	914	-0.2	-4.3	74	3.05	325	18	280.1	288.9	280.6
878.6	1219	-2.6	-5.5	80	2.89	310	37	280.7	289.1	281.2
850.0	1482	-4.7	-6.6	87	2.76	320	42	281.2	289.2	281.7
845.5	1524	-5.0	-6.8	87	2.73	320	42	281.3	289.2	281.8
834.0	1631	-5.9	-7.3	90	2.66	322	40	281.5	289.2	281.9
813.1	1829	-7.0	-8.1	92	2.57	325	37	282.4	289.9	282.8
785.0	2104	-8.5	-9.2	95	2.44	330	32	283.6	290.8	284.0
782.0	2134	-8.7	-9.5	94	2.39	330	32	283.8	290.8	284.2
751.8	2438	-10.3	-12.5	84	1.96	325	36	285.2	291.1	285.5
744.0	2519	-10.7	-13.3	81	1.85	325	36	285.6	291.2	285.9
722.5	2743	-12.4	-14.9	82	1.68	325	37	286.1	291.2	286.4
700.0	2985	-14.3	-16.6	83	1.50	325	38	286.6	291.2	286.9
665.6	3353	-17.2	-19.7	80	1.21	320	39	287.6	291.3	287.8
638.3	3658	-19.5	-22.3	79	1.01	330	41	288.3	291.5	288.5
587.2	4267	-24.3	-27.5	75	0.69	335	32	289.8	292.0	289.9
540.1	4877	-29.0	-32.6	71	0.46	315	27	291.1	292.6	291.2
501.0	5426	-33.3	-37.3	67	0.31	315	33	292.2	293.3	292.3
500.0	5440	-33.3	-37.3	67	0.31	315	33	292.4	293.5	292.4
495.0	5511	-34.1	-37.6	71	0.31	315	34	292.2	293.3	292.3
475.4	5791	-36.3	-40.2	67	0.24	315	36	292.9	293.8	292.9
460.0	6020	-38.1	-42.4	64	0.20	319	30	293.4	294.1	293.5
454.9	6096	-38.4	-44.0	56	0.17	320	28	293.9	294.6	294.0
445.0	6248	-39.1	-47.1	42	0.12	315	26	295.0	295.4	295.0
415.9	6706	-42.6	-48.7	52	0.11	300	20	296.2	296.6	296.2
400.0	6970	-44.7	-49.6	58	0.10	315	18	296.8	297.2	296.8
379.7	7315	-47.9	-50.4	76	0.10	305	15	297.1	297.4	297.1
376.0	7380	-48.5	-50.5	80	0.10	308	15	297.1	297.5	297.1
362.5	7620	-49.8	-52.6	72	0.08	320	13	298.4	298.7	298.4
352.0	7812	-50.9	-54.3	67	0.07	298	11	299.5	299.8	299.5
345.9	7925	-51.0	-56.7	51	0.05	285	10	300.9	301.1	300.9
340.0	8038	-51.1	-59.1	38	0.04	284	10	302.2	302.4	302.2
300.1	8839	-57.3	-61.6	58	0.03	275	12	304.5	304.6	304.5
300.0	8840	-57.3	-61.6	58	0.03	295	10	304.5	304.6	304.5
285.9	9144	-59.2	-63.2	59	0.03	290	19	306.0	306.1	306.0
285.0	9164	-59.3	-63.3	60	0.03	290	19	306.1	306.2	306.1

277.0	9345	-55.9	-63.9	36	0.03	303	20	313.5	313.6	313.5
272.5	9449	-56.6	-69.1	19	0.01	310	20	313.9	314.0	313.9
272.0	9461	-56.7	-69.7	18	0.01	310	20	314.0	314.0	314.0
269.0	9532	-55.3	-70.3	14	0.01	313	21	317.0	317.1	317.0
266.0	9604	-55.7	-72.7	10	0.01	316	22	317.4	317.5	317.4
250.0	10000	-56.3	-70.3	16	0.01	330	26	322.2	322.3	322.2
247.7	10058	-56.3	-70.9	14	0.01	330	28	323.1	323.1	323.1
239.0	10284	-56.3	-73.3	10	0.01	334	29	326.4	326.4	326.4
236.1	10363	-55.2	-74.2	8	0.01	335	29	329.1	329.2	329.1
227.0	10613	-51.9	-76.9	3	0.00	319	30	338.0	338.0	338.0
225.1	10668	-51.8	-77.4	3	0.00	315	30	338.9	338.9	338.9
214.7	10973	-51.4	-80.3	2	0.00	310	38	344.1	344.1	344.1
211.0	11085	-51.3	-81.3	2	0.00	312	36	346.0	346.1	346.0
203.0	11334	-52.5	-82.5	2	0.00	318	30	348.0	348.0	348.0
200.0	11430	-52.3	-82.3	2	0.00	320	28	349.8	349.8	349.8
195.4	11582	-52.0	-82.7	1	0.00	315	26	352.6	352.6	352.6
193.0	11661	-51.9	-82.9	1	0.00	312	28	354.0	354.0	354.0
191.0	11729	-50.3	-82.3	1	0.00	310	29	357.6	357.6	357.6
186.4	11887	-50.7	-82.5	1	0.00	305	33	359.5	359.5	359.5
168.0	12563	-52.3	-83.3	1	0.00	320	33	367.6	367.7	367.6
161.9	12802	-51.6	-82.9	1	0.00	325	33	372.7	372.8	372.7
150.0	13300	-50.1	-82.1	1	0.00	295	37	383.5	383.6	383.5
147.5	13411	-50.6	-82.3	1	0.00	295	37	384.6	384.6	384.6
140.0	13748	-52.1	-83.1	1	0.00	306	36	387.7	387.7	387.7
134.2	14021	-51.8	-83.1	1	0.00	315	36	393.0	393.0	393.0
124.0	14534	-51.1	-83.1	1	0.00	311	41	403.2	403.2	403.2
122.2	14630	-51.4	-83.3	1	0.00	310	42	404.3	404.3	404.3
111.2	15240	-53.5	-84.7	1	0.00	320	38	411.5	411.5	411.5
108.0	15426	-54.1	-85.1	1	0.00	317	37	413.7	413.7	413.7
101.1	15850	-53.1	-84.9	1	0.00	310	34	423.6	423.6	423.6
100.0	15920	-52.9	-84.9	1	0.00	310	34	425.2	425.3	425.2
72.5	17983	-56.3	-86.5	1	0.00	300	33	458.9	458.9	458.9
70.0	18210	-56.7	-86.7	1	0.00	305	38	462.7	462.8	462.7
69.2	18288	-56.7	-86.7	1	0.00	310	41	464.3	464.3	464.3
65.9	18593	-56.9	-86.9	1	0.00	315	37	470.4	470.4	470.4
65.8	18603	-56.9	-86.9	1	0.00	315	37	470.6	470.6	470.6
57.0	19507	-57.5	-87.5	1	0.00	315	29	488.8	488.8	488.8
54.4	19812	-57.7	-87.7	1	0.00	300	27	495.0	495.1	495.0
50.0	20340	-58.1	-88.1	1	0.00	305	25	506.1	506.2	506.1
49.4	20422	-58.1	-88.1	1	0.00	295	28	508.1	508.1	508.1
44.8	21031	-57.9	-87.9	1	0.00	320	40	522.8	522.8	522.8
42.7	21336	-57.8	-87.8	1	0.00	325	32	530.4	530.4	530.4
41.6	21499	-57.7	-87.7	1	0.00	320	27	534.4	534.5	534.4
40.7	21641	-58.0	-87.9	1	0.00	315	22	537.0	537.1	537.0
32.1	23120	-61.7	-89.7	1	0.00	323	34	564.8	564.9	564.8
30.3	23470	-60.9	-89.7	1	0.00	325	37	576.3	576.3	576.3

30.0	23540	-60.7	-89.7	1	0.00	325	37	578.6	578.6	578.6
27.5	24079	-59.2	-88.7	1	0.01	345	29	597.1	597.2	597.1
25.0	24689	-57.5	-87.5	1	0.01	315	27	618.9	618.9	618.9
24.6	24779	-57.3	-87.3	1	0.01	316	26	622.1	622.2	622.1
22.6	25298	-59.0	-88.2	1	0.01	325	21	632.1	632.2	632.1
21.6	25603	-60.0	-88.7	1	0.01	315	24	638.0	638.1	638.0
20.0	26070	-61.5	-89.5	1	0.01	330	33	647.2	647.3	647.2
17.9	26764	-57.7	-87.7	1	0.01	344	27	680.0	680.1	680.0
17.7	26822	-57.9	-87.8	1	0.01	345	27	681.3	681.4	681.3
16.9	27127	-58.8	-88.5	1	0.01	335	30	687.8	687.9	687.8
16.1	27432	-59.8	-89.2	1	0.01	340	31	694.4	694.5	694.4
15.0	27871	-61.1	-90.1	1	0.01	340	37	704.0	704.1	704.0
13.9	28346	-59.6	-89.0	1	0.01	340	43	724.4	724.6	724.4
12.6	28962	-57.7	-87.7	1	0.01	340	33	751.8	752.0	751.8
12.6	28956	-57.7	-87.7	1	0.01	340	33	751.5	751.7	751.5
12.0	29261	-58.4	-88.1	1	0.01	325	30	759.8	760.0	759.8
10.1	30348	-60.7	-89.7	1	0.01	339	38	789.7	789.8	789.7
10.0	30410	-60.7	-89.7	1	0.01	340	38	791.9	792.1	791.9
9.9	30480	-60.4	-89.5	1	0.01	340	40	795.7	795.9	795.7
9.4	30785	-58.8	-88.6	1	0.02	345	40	812.4	812.6	812.4
8.2	31699	-54.3	-85.8	1	0.03	330	49	864.4	864.8	864.4
7.8	32004	-52.8	-84.9	1	0.04	320	35	882.4	882.9	882.4
7.3	32417	-50.7	-83.7	1	0.05	320	37	907.2	907.9	907.2
7.0	32690	-51.7	-83.7	1	0.05	320	39	914.0	914.8	914.1
6.1	33528	-53.6	-84.8	1	0.05	315	43	940.7	941.4	940.7
5.9	33833	-54.3	-85.2	1	0.05	335	54	950.5	951.2	950.6
5.1	34721	-56.3	-86.3	1	0.05			979.8	980.5	979.8

Station information and sounding indices

Station identifier: WSE

Station number: 71119

Observation time: 150120/1200

Station latitude: 53.53

Station longitude: -114.10

Station elevation: 766.0

Showalter index: 3.52

Lifted index: 3.74

LIFT computed using virtual temperature: 3.74

SWEAT index: 243.00

K index: 19.70

Cross totals index: 26.70

Vertical totals index: 28.60

Totals totals index: 55.30

Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 267.66
Pres [hPa] of the Lifted Condensation Level: 850.92
Mean mixed layer potential temperature: 280.31
Mean mixed layer mixing ratio: 3.00
1000 hPa to 500 hPa thickness: 5263.00
Precipitable water [mm] for entire sounding: 7.69

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:ldoolman@uwyo.edu)
